

## **ATTACHMENT C**

### **MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS**

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## **ATTACHMENT C**

### **MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS**

This attachment fulfills the requirement of Health and Safety Code, section 40718 for the Board to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the 2009 area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for each pollutant for which there is a national standard.

# Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards <sup>1</sup>		Federal Standards <sup>2</sup>		
		Concentration <sup>3</sup>	Method <sup>4</sup>	Primary <sup>3,5</sup>	Secondary <sup>3,6</sup>	Method <sup>7</sup>
Ozone (O <sub>3</sub> )	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m <sup>3</sup> )		0.075 ppm (147 µg/m <sup>3</sup> )		
Respirable Particulate Matter (PM10)	24 Hour	50 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	150 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m <sup>3</sup>		—		
Fine Particulate Matter (PM2.5)	24 Hour	No Separate State Standard		35 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	15.0 µg/m <sup>3</sup>		
Carbon Monoxide (CO)	8 Hour	9.0 ppm (10mg/m <sup>3</sup> )	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m <sup>3</sup> )	None	Non-Dispersive Infrared Photometry (NDIR)
	1 Hour	20 ppm (23 mg/m <sup>3</sup> )		35 ppm (40 mg/m <sup>3</sup> )		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m <sup>3</sup> )		—	—	—
Nitrogen Dioxide (NO <sub>2</sub> )	Annual Arithmetic Mean	0.030 ppm (57 µg/m3)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m <sup>3</sup> )	Same as Primary Standard	Gas Phase Chemiluminescence
	1 Hour	0.18 ppm (339 µg/m <sup>3</sup> )		—		
Sulfur Dioxide (SO <sub>2</sub> )	Annual Arithmetic Mean	—	Ultraviolet Fluorescence	0.030 ppm (80 µg/m <sup>3</sup> )	—	Spectrophotometry (Pararosaniline Method)
	24 Hour	0.04 ppm (105 µg/m <sup>3</sup> )		0.14 ppm (365 µg/m <sup>3</sup> )	—	
	3 Hour	—		—	0.5 ppm (1300 µg/m <sup>3</sup> )	—
	1 Hour	0.25 ppm (655 µg/m <sup>3</sup> )		—	—	
Lead <sup>8</sup>	30 Day Average	1.5 µg/m <sup>3</sup>	Atomic Absorption	—	—	—
	Calendar Quarter	—		1.5 µg/m <sup>3</sup>	Same as Primary Standard	High Volume Sampler and Atomic Absorption
	Rolling 3-Month Average <sup>9</sup>	—		0.15 µg/m <sup>3</sup>		
Visibility Reducing Particles	8 Hour	Extinction coefficient of 0.23 per kilometer — visibility of ten miles or more (0.07 — 30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70 percent. Method: Beta Attenuation and Transmittance through Filter Tape.		No Federal Standards		
Sulfates	24 Hour	25 µg/m <sup>3</sup>	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m <sup>3</sup> )	Ultraviolet Fluorescence			
Vinyl Chloride <sup>8</sup>	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	Gas Chromatography			

See footnotes on next page ...

For more information please call ARB-PIO at (916) 322-2990

California Air Resources Board (11/17/08)

1. California standards for ozone, carbon monoxide (except Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, suspended particulate matter—PM<sub>10</sub>, PM<sub>2.5</sub>, and visibility reducing particles, are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest eight hour concentration in a year, averaged over three years, is equal to or less than the standard. For PM<sub>10</sub>, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150  $\mu\text{g}/\text{m}^3$  is equal to or less than one. For PM<sub>2.5</sub>, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact U.S. EPA for further clarification and current federal policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent procedure which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the EPA.
8. The ARB has identified lead and vinyl chloride as ‘toxic air contaminants’ with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
9. National lead standard, rolling 3-month average: final rule signed October 15, 2008.

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### ***Area Designations for the State Ambient Air Quality Standards***

The area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200 are presented in the following maps and tables. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

<b>Attainment</b>	<b>A</b>
<b>Nonattainment</b>	<b>N</b>
<b>Nonattainment-Transitional</b>	<b>NT</b>
<b>Unclassified</b>	<b>U</b>

In general, the Board designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, the Board may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

**FIGURE 1**

**2010  
Area Designations for State  
Ambient Air Quality Standards  
OZONE**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD



**TABLE 1**

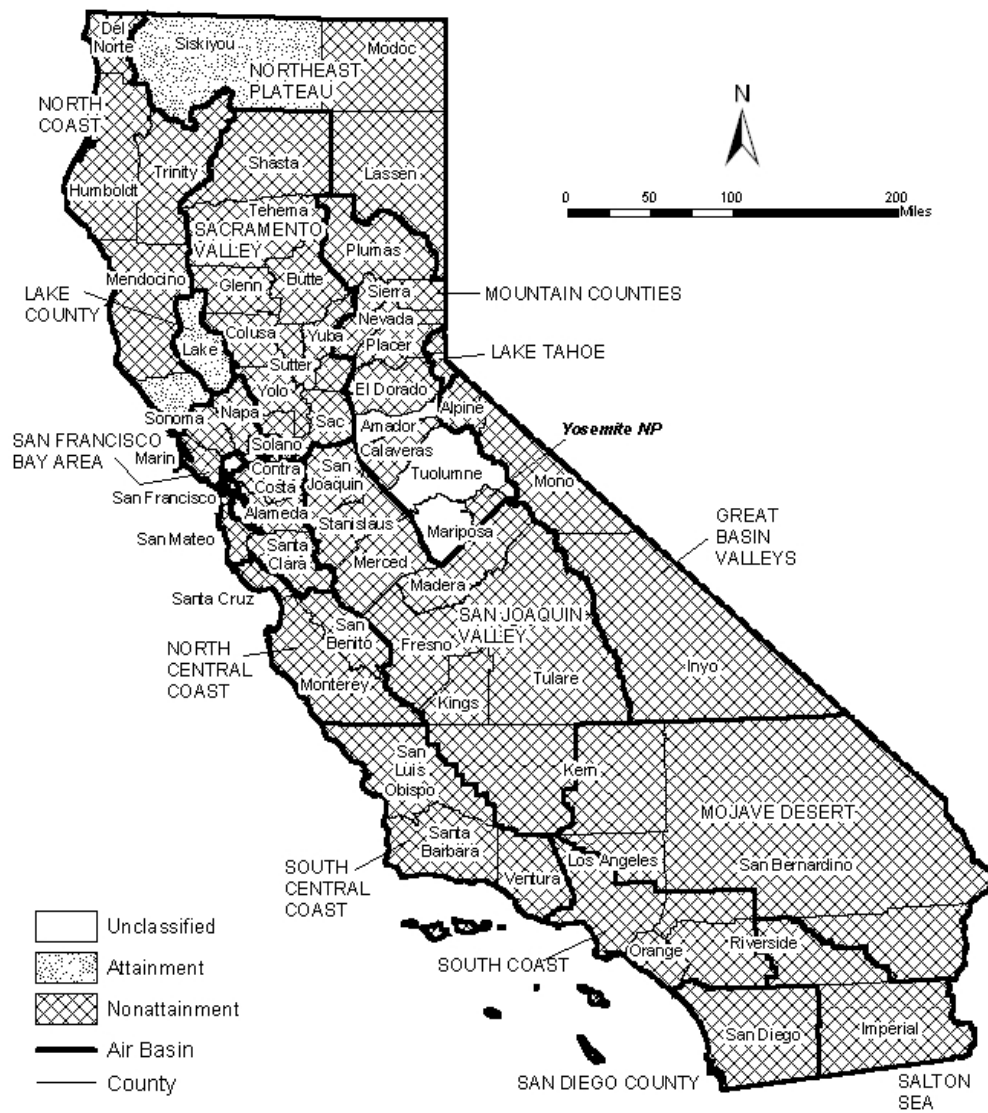
**California Ambient Air Quality Standards  
Area Designations for Ozone <sup>(1)</sup>**

	N	NT	U	A		N	NT	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTH COAST AIR BASIN				X
Alpine County			X		NORTHEAST PLATEAU AIR BASIN				
Inyo County	X				Siskiyou County		X		
Mono County	X				Remainder of Air Basin			X	
LAKE COUNTY AIR BASIN				X	SACRAMENTO VALLEY AIR BASIN				
LAKE TAHOE AIR BASIN	X				Colusa County		X		
MOJAVE DESERT AIR BASIN	X				Glenn County		X		
MOUNTAIN COUNTIES AIR BASIN					Sutter and Yuba Counties		X		
Amador County	X				Remainder of Air Basin	X			
Calaveras County	X				SALTON SEA AIR BASIN	X			
El Dorado County (portion)	X				SAN DIEGO AIR BASIN	X			
Mariposa County	X				SAN FRANCISCO BAY AREA AIR BASIN	X			
Nevada County	X				SAN JOAQUIN VALLEY AIR BASIN	X			
Placer County (portion)	X				SOUTH CENTRAL COAST AIR BASIN	X			
Plumas County			X		SOUTH COAST AIR BASIN	X			
Sierra County			X						
Tuolumne County	X								
NORTH CENTRAL COAST AIR BASIN	X								

(1) AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law. Similarly, nonattainment-transitional districts revert back to nonattainment by operation of law.

**FIGURE 2**

**2010  
Area Designations for State  
Ambient Air Quality Standards  
PM<sub>10</sub>**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

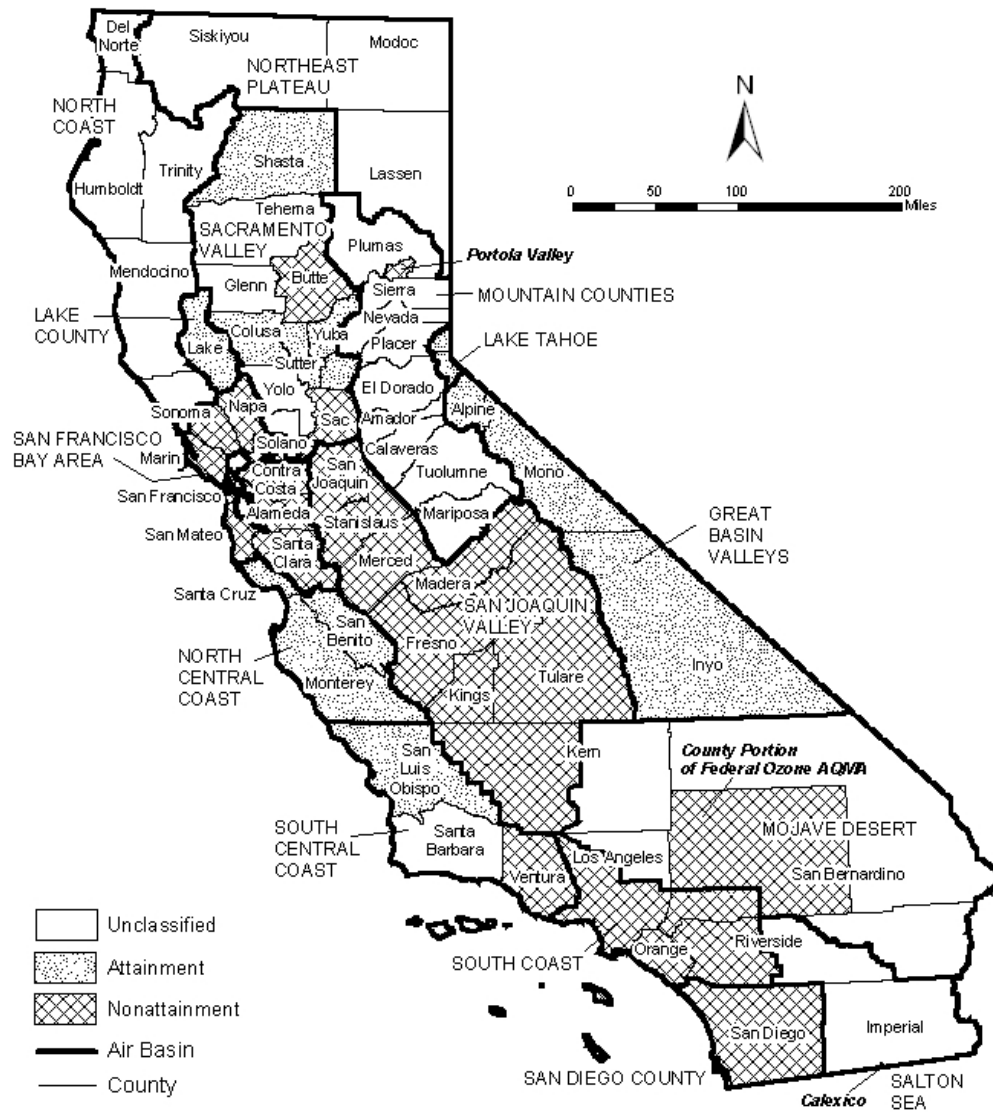
**TABLE 2**

**California Ambient Air Quality Standards  
Area Designation for Suspended Particulate Matter (PM10)**

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN	X			NORTH CENTRAL COAST AIR BASIN	X		
LAKE COUNTY AIR BASIN			X	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	X			Sonoma County (portion)			X
MOJAVE DESERT AIR BASIN	X			Remainder of Air Basin	X		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		X		Siskiyou County			X
Calaveras County	X			Remainder of Air Basin	X		
El Dorado County (portion)	X			SACRAMENTO VALLEY AIR BASIN	X		
Mariposa County				SALTON SEA AIR BASIN	X		
- Yosemite National Park	X			SAN DIEGO AIR BASIN	X		
- Remainder of County		X		SAN FRANCISCO BAY AREA AIR BASIN	X		
Nevada County	X			SAN JOAQUIN VALLEY AIR BASIN	X		
Placer County (portion)	X			SOUTH CENTRAL COAST AIR BASIN	X		
Plumas County	X			SOUTH COAST AIR BASIN	X		
Sierra County	X						
Tuolumne County		X					

**FIGURE 3**

**2010  
Area Designations for State  
Ambient Air Quality Standards  
PM<sub>2.5</sub>**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

**TABLE 3**

**California Ambient Air Quality Standards  
Area Designations for Fine Particulate Matter (PM<sub>2.5</sub>)**

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			X	Imperial County			
LAKE TAHOE AIR BASIN			X	- City of Calexico (3)	X		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin		X	
San Bernardino County				SAN DIEGO AIR BASIN	X		
- County portion of federal Southeast Desert Modified AQMA for Ozone (1)	X			SAN FRANCISCO BAY AREA AIR BASIN	X		
				SAN JOAQUIN VALLEY AIR BASIN	X		
Remainder of Air Basin		X		SOUTH CENTRAL COAST AIR BASIN			
MOUNTAIN COUNTIES AIR BASIN				San Luis Obispo County			X
Plumas County				Santa Barbara County		X	
- Portola Valley (2)	X			Ventura County	X		
Remainder of Air Basin		X		SOUTH COAST AIR BASIN	X		
NORTH CENTRAL COAST AIR BASIN			X				
NORTH COAST AIR BASIN		X					
NORTHEAST PLATEAU AIR BASIN		X					
SACRAMENTO VALLEY AIR BASIN							
Butte County	X						
Colusa County			X				
Placer County (portion)			X				
Sacramento County	X						
Shasta County			X				
Sutter and Yuba Counties			X				
Remainder of Air Basin		X					

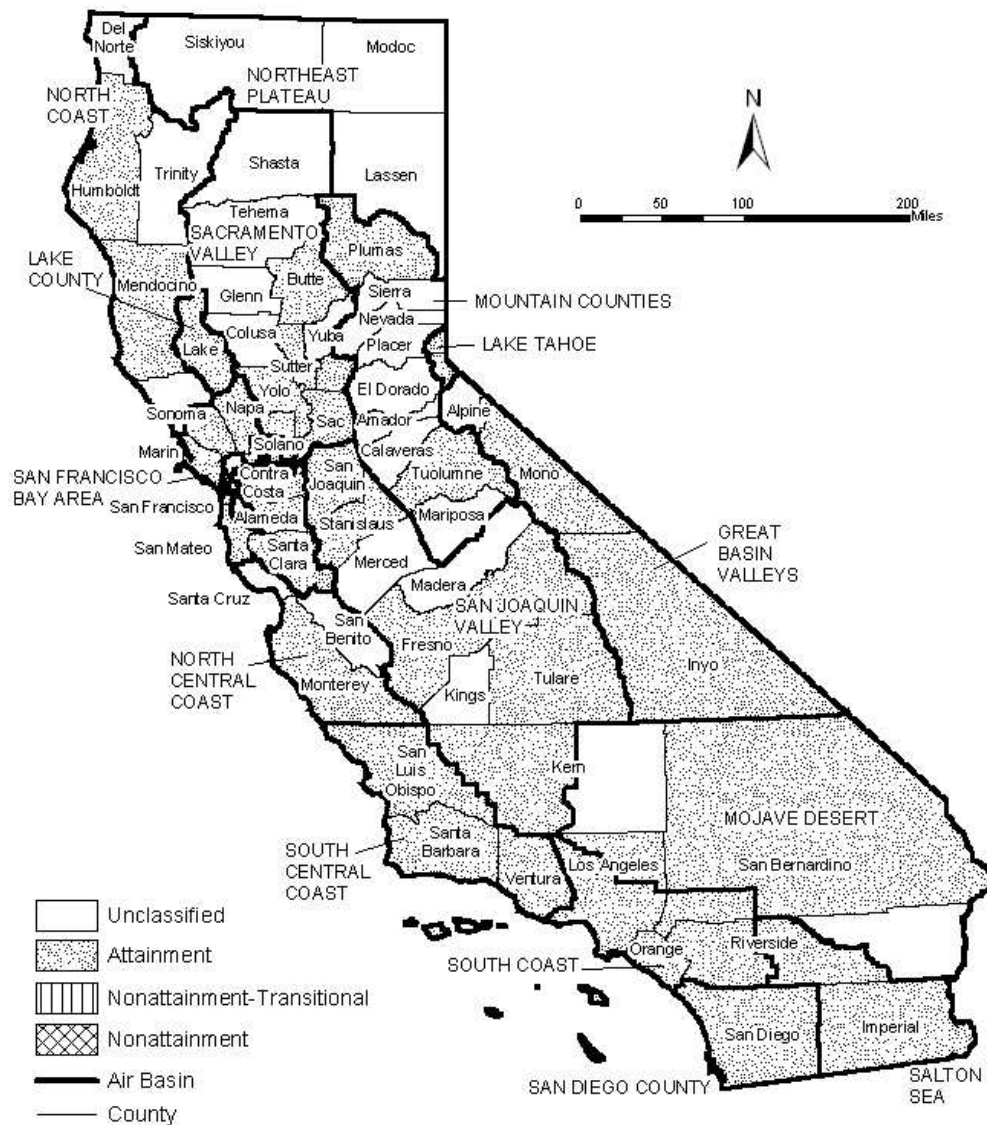
(1) California Code of Regulations, title 17, section 60200(b)

(2) California Code of Regulations, title 17, section 60200(c)

(3) California Code of Regulations, title 17, section 60200(a)

**FIGURE 4**

**2010  
Area Designations for State  
Ambient Air Quality Standards  
CARBON MONOXIDE**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

**TABLE 4**

**California Ambient Air Quality Standards  
Area Designation for Carbon Monoxide\***

	N	NT	U	A		N	NT	U	A
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			X		Butte County				X
Inyo County				X	Colusa County			X	
Mono County				X	Glenn County			X	
LAKE COUNTY AIR BASIN				X	Placer County (portion)				X
LAKE TAHOE AIR BASIN				X	Sacramento County				X
MOJAVE DESERT AIR BASIN					Shasta County			X	
Kern County (portion)			X		Solano County (portion)				X
Los Angeles County (portion)				X	Sutter County				X
Riverside County (portion)			X		Tehama County			X	
San Bernardino County (portion)				X	Yolo County				X
MOUNTAIN COUNTIES AIR BASIN					Yuba County			X	
Amador County			X		SALTON SEA AIR BASIN				
Calaveras County			X		Imperial County				X
El Dorado County (portion)			X		Riverside County (portion)				X
Mariposa County			X		SAN DIEGO AIR BASIN				X
Nevada County			X		SAN FRANCISCO BAY AREA AIR BASIN				X
Placer County (portion)			X		SAN JOAQUIN VALLEY AIR BASIN				
Plumas County				X	Fresno County				X
Sierra County			X		Kern County (portion)				X
Tuolumne County				X	Kings County			X	
NORTH CENTRAL COAST AIR BASIN					Madera County			X	
Monterey County				X	Merced County			X	
San Benito County			X		San Joaquin County				X
Santa Cruz County			X		Stanislaus County				X
NORTH COAST AIR BASIN					Tulare County				X
Del Norte County			X		SOUTH CENTRAL COAST AIR BASIN				X
Humboldt County				X	SOUTH COAST AIR BASIN				
Mendocino County				X	Los Angeles County (portion)				X
Sonoma County (portion)			X		Orange County				X
Trinity County			X		Riverside County (portion)				X
NORTHEAST PLATEAU AIR BASIN			X		San Bernardino County (portion)				X

\* The area designated for carbon monoxide is a county or portion of a county

**FIGURE 5**

**2010  
Area Designations for State  
Ambient Air Quality Standards  
NITROGEN DIOXIDE**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD



**TABLE 5**

**California Ambient Air Quality Standards  
Area Designation for Nitrogen Dioxide**

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN	X		
NORTHEAST PLATEAU AIR BASIN			X				

**FIGURE 6**

**2010  
Area Designations for State  
Ambient Air Quality Standards  
SULFUR DIOXIDE**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

**TABLE 6**

**California Ambient Air Quality Standards  
Area Designation for Sulfur Dioxide\***

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X				

\* The area designated for sulfur dioxide is a county or portion of a county

**FIGURE 7**

**2010  
Area Designations for State  
Ambient Air Quality Standards  
SULFATES**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

**TABLE 7**

**California Ambient Air Quality Standards  
Area Designation for Sulfates**

	<b>N</b>	<b>U</b>	<b>A</b>		<b>N</b>	<b>U</b>	<b>A</b>
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X				

**FIGURE 8**

**2010  
Area Designations for State  
Ambient Air Quality Standards  
LEAD**



**TABLE 8**

**California Ambient Air Quality Standards  
Area Designations for Lead (particulate)\***

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SAN DIEGO AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH COAST AIR BASIN			
NORTH COAST AIR BASIN			X	Los Angeles County	X		
NORTHEAST PLATEAU AIR BASIN			X	Remainder of Air Basin			X
SACRAMENTO VALLEY AIR BASIN			X				

\* The area designated for lead is a county or portion of a county

FIGURE 9

2010  
Area Designations for State  
Ambient Air Quality Standards  
HYDROGEN SULFIDE



Source Date:  
December 2009  
Air Quality Data Branch, PTSD



**TABLE 9**

**California Ambient Air Quality Standards  
Area Designation for Hydrogen Sulfide\***

	N	NT	U	A		N	NT	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			X	
Alpine County			X		NORTH COAST AIR BASIN				
Inyo County				X	Del Norte County			X	
Mono County				X	Humboldt County				X
LAKE COUNTY AIR BASIN				X	Mendocino County			X	
LAKE TAHOE AIR BASIN			X		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				X
Kern County (portion)			X		- Remainder of County			X	
Los Angeles County (portion)			X		Trinity County			X	
Riverside County (portion)			X		NORTHEAST PLATEAU AIR BASIN			X	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			X	
- Searles Valley Planning Area (1)	X				SALTON SEA AIR BASIN			X	
- Remainder of County			X		SAN DIEGO AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			X	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			X	
- City of Sutter Creek	X				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			X		San Luis Obispo County				X
Calaveras County			X		Santa Barbara County				X
El Dorado County (portion)			X		Ventura County			X	
Mariposa County			X		SOUTH COAST AIR BASIN			X	
Nevada County			X						
Placer County (portion)			X						
Plumas County			X						
Sierra County			X						
Tuolumne County			X						

\* The area designated for hydrogen sulfide is a county or portion of a county

(1) 52 Federal Register 29384 (August 7, 1987)

(2) California Code of Regulations, title 17, section 60200(d)

**FIGURE 10**

**2010  
Area Designations for State  
Ambient Air Quality Standards  
VISIBILITY REDUCING  
PARTICLES**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

**TABLE 10**

**California Ambient Air Quality Standards  
Area Designation for Visibility Reducing Particles**

	N	NT	U	A		N	NT	U	A
GREAT BASIN VALLEYS AIR BASIN			X		SACRAMENTO VALLEY AIR BASIN			X	
LAKE COUNTY AIR BASIN				X	SALTON SEA AIR BASIN			X	
LAKE TAHOE AIR BASIN			X		SAN DIEGO AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X		SAN FRANCISCO BAY AREA AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X		SAN JOAQUIN VALLEY AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X		SOUTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X		SOUTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X						

## ***Area Designations for the National Ambient Air Quality Standards***

This section contains a description of the area designations for each pollutant for which there is a national ambient air quality standard, except lead. The national lead standard was promulgated after the federal Clean Air Act was amended in 1977, and in promulgating the national lead standard, the U.S. EPA did not require areas to be designated in a manner similar to other pollutants. The area designations for each pollutant are presented in the form of a map and a summary table.

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. The Board generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations for California. For purposes of consistency, all maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by the Board. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, the Board redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Part 81.305. They are available on the web at:

[http://www.access.gpo.gov/nara/cfr/waisidx\\_05/40cfr81\\_05.html](http://www.access.gpo.gov/nara/cfr/waisidx_05/40cfr81_05.html)

Once at this website, scroll down to Part 81.305 to view the California area designations.

### **Designation Categories**

*Nitrogen dioxide.* The U.S. EPA uses two categories to designate areas with respect to nitrogen dioxide. These designation categories are:

- Does not meet primary standards, and
- Cannot be classified or better than national standards.

Areas that do not meet the primary national standards for these pollutants are indicated on the following maps and summary tables as "N" for nonattainment. Areas that cannot be classified or are better than the national standards are indicated as "U/A" for unclassified/attainment.

*Sulfur dioxide.* The U.S. EPA uses four categories to designate areas with respect to sulfur dioxide. These designation categories are:

- Does not meet the primary standards,
- Does not meet the secondary standards,
- Cannot be classified, and
- Better than the national standards.

In California, the first two designation categories listed above are not applicable because all areas of California either meet the primary and secondary standards or are unclassifiable. The map and summary table for sulfur dioxide show areas that cannot be classified as “U” for unclassifiable and areas that are better than the national standards as “A” for attainment.

*Carbon monoxide and fine suspended particulate matter (PM<sub>2.5</sub>).* Two categories are used to designate areas with respect to carbon monoxide and PM<sub>2.5</sub>. These designation categories are:

- Nonattainment, and
- Unclassifiable/Attainment.

New national designation areas for PM<sub>2.5</sub> became effective December 14, 2009. These areas reflect both the annual average standard of 15 µg/m<sup>3</sup> and the recently revised (December 2006) 24-hour standard of 35 µg/m<sup>3</sup>.

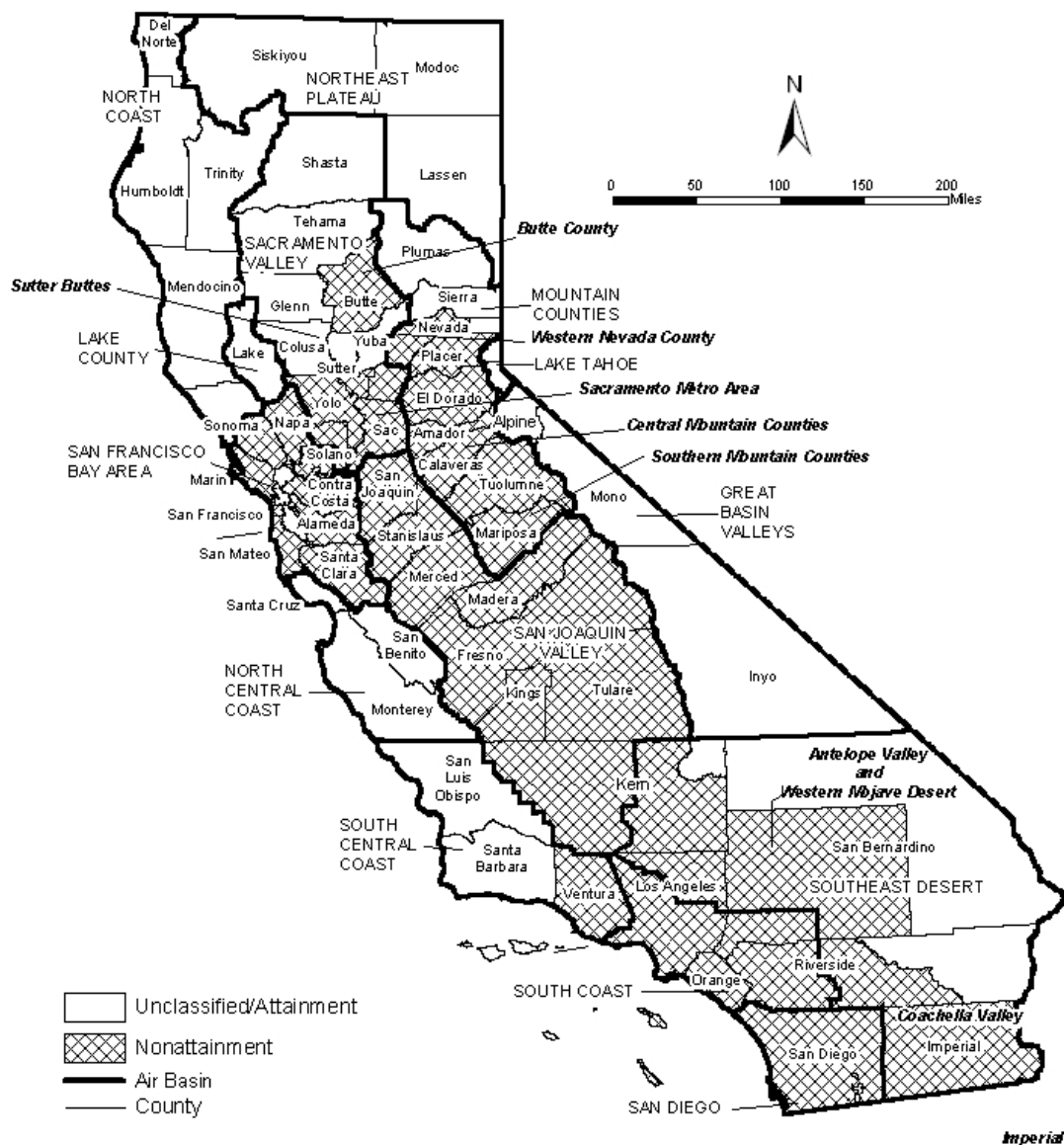
*Ozone and suspended particulate matter (PM<sub>10</sub>).* Finally, the U.S. EPA uses three categories to designate areas with respect to ozone and PM<sub>10</sub>. These designation categories are:

- Attainment,
- Nonattainment, and
- Unclassifiable.

The National 1-hour ozone standard was revoked effective June 15, 2005; the National 8-hour ozone standard is still in effect.

FIGURE 11

# Area Designations for National Ambient Air Quality Standards 8-HOUR OZONE



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

**TABLE 11**

**National Ambient Air Quality Standards  
Area Designations for 8-Hour Ozone\***

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		X	Sutter County		
LAKE TAHOE AIR BASIN		X	- Sutter County (Sutter Buttes)	X	
MOUNTAIN COUNTIES AIR BASIN			- Remainder of North Sutter County		X
Central Mountain Counties			Tehama County		X
- Amador County	X		Yolo County	X	
- Calaveras County	X		Yuba County		X
Southern Mountain Counties			SAN DIEGO COUNTY	X	
- Mariposa County	X		SAN FRANCISCO BAY AREA AIR BASIN	X	
- Tuolumne County	X		SAN JOAQUIN VALLEY AIR BASIN	X	
El Dorado County (portion) (2)	X		SOUTH CENTRAL COAST AIR BASIN		
Nevada County			San Luis Obispo County		X
- Western Nevada County	X		Santa Barbara County		X
- Remainder of County		X	Ventura County		
Placer County (portion) (2)	X		Area excluding Anacapa and San Nicolas Islands	X	
Plumas County		X	Channel Islands (1)		X
Sierra County		X	SOUTH COAST AIR BASIN (1)	X	
NORTH CENTRAL COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		X	Kern County (portion)	X	
NORTHEAST PLATEAU AIR BASIN		X	Imperial County (3)	X	
SACRAMENTO VALLEY AIR BASIN			Los Angeles County (portion)	X	
Butte County	X		Riverside County (portion)		
Colusa County		X	- Coachella Valley	X	
Glenn County		X	- Non-AQMA portion		X
Sacramento Metro Area (2)	X		San Bernardino County		
Shasta County		X	- Western portion (AQMA)	X	
			- Eastern portion (non-AQMA)		X

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

(1) South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

(2) For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

(3) This area has air quality that meets the national ozone standard of 0.08 ppm.

FIGURE 12

# Area Designations for National Ambient Air Quality Standards PM10



Source Date:  
December 2009  
Air Quality Data Branch, PTSD



**TABLE 12**

**National Ambient Air Quality Standards  
Area Designations for Suspended Particulate Matter (PM10)\***

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN				SAN DIEGO COUNTY		X	
Alpine County		X		SAN FRANCISCO BAY AREA AIR BASIN		X	
Inyo County				SAN JOAQUIN VALLEY AIR BASIN			X
- Owens Valley Planning Area	X			SOUTH CENTRAL COAST AIR BASIN		X	
- Coso Junction	X			SOUTH COAST AIR BASIN	X		
- Remainder of County		X		SOUTHEAST DESERT AIR BASIN			
Mono County				Eastern Kern County			
- Mammoth Lake Planning Area	X			- Indian Wells Valley			X
- Mono Lake Basin	X			- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X		- Remainder of County		X	
LAKE COUNTY AIR BASIN		X		Imperial County			
LAKE TAHOE AIR BASIN		X		- Imperial Valley Planning Area	X		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		X	
Placer County (portion) (2)		X		Los Angeles County (portion)		X	
Remainder of Air Basin		X		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		X		- Coachella Valley	X		
NORTH COAST AIR BASIN		X		- Non-AQMA portion		X	
NORTHEAST PLATEAU AIR BASIN		X		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	X		
Butte County		X		- Remainder of County	X		
Colusa County		X					
Glenn County		X					
Placer County (portion) (2)		X					
Sacramento County (1)	X						
Shasta County		X					
Solano County (portion)		X					
Sutter County		X					
Tehama County		X					
Yolo County		X					
Yuba County		X					

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

(1) Sacramento's air quality meets the federal PM10 standards. U.S. EPA is preparing a finding of attainment.

(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.

FIGURE 13

# Area Designations for National Ambient Air Quality Standards PM2.5



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

**TABLE 13**

**National Ambient Air Quality Standards  
Area Designation for Fine Particulate Matter (PM<sub>2.5</sub>)\***

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN	X	
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN	X	
MOUNTAIN COUNTIES AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN (4)	X	
NORTH COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
NORTHEAST PLATEAU AIR BASIN		X	Imperial County (portion) (5)	X	
SACRAMENTO VALLEY AIR BASIN			Remainder of Air Basin		X
Butte County (portion) (1)	X				
Sacramento Metro Area (2)	X				
Sutter County (3)	X				
Yuba County (portion) (3)	X				
Remainder of Air Basin		X			

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

(1) City of Chico and surrounding areas

(2) For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties.

(3) Comprises all of Sutter and western portion of Yuba County.

(4) Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

(5) That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland.

**FIGURE 14**

**Area Designations for National  
Ambient Air Quality Standards  
CARBON MONOXIDE**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

**TABLE 14****National Ambient Air Quality Standards  
Area Designations for Carbon Monoxide\***

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

**FIGURE 15**

**Area Designations for National  
Ambient Air Quality Standards  
NITROGEN DIOXIDE**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD

**TABLE 15****National Ambient Air Quality Standards  
Area Designations for Nitrogen Dioxide\***

	<b>N</b>	<b>U/A</b>		<b>N</b>	<b>U/A</b>
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

**FIGURE 16**

**Area Designations for National  
Ambient Air Quality Standards  
SULFUR DIOXIDE**



Source Date:  
December 2009  
Air Quality Data Branch, PTSD



**TABLE 16**

**National Ambient Air Quality Standards  
Area Designations for Sulfur Dioxide\***

	A	U		A	U
GREAT BASIN VALLEYS AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		X	San Luis Obispo County		X
LAKE TAHOE AIR BASIN	X		Santa Barbara County		X
MOUNTAIN COUNTIES AIR BASIN		X	Ventura County	X	
NORTH CENTRAL COAST AIR BASIN		X	Channel Islands (1)		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN	X	
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		X	Imperial County	X	
SAN DIEGO COUNTY	X		Remainder of Air Basin		X
SAN FRANCISCO BAY AREA AIR BASIN	X				
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		X			
Kern County (portion)	X				
Kings County		X			
Madera County		X			
Merced County		X			
San Joaquin County		X			
Stanislaus County		X			
Tulare County		X			

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

(1) South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.